Presto Enviro
ENVIROMENTAL SIMULATION CHAMBERS | A PRESTO GROUP COMPANY

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Battery Dry Oven



Model :PT-BDO

Battery Drying Oven is a high temperature drying oven which provides stable testing for Batteries It is a simulation test oven which helps the user in analyzing the battery performance under high temperatures. The Battery Oven Provides stable results can can be used upto 1000hours nonstop, hence proving its rigidity.

Battery Dry Oven is also explosion proof and consists of all safety features like CO2 auto extinguishing system and 100% Insulation. The instrument further consists of an intuitive programmable touch screen interface which helps the user in extracting valuable data and generating battery performance test reports.

The Battery Drying oven is useful for Environmental simulation analysis when batteries are exposed to high temperatures. This also helps Battery and EV manufacturers in improving the performance and making the battery rugged as per the reports generated after the testing is completed.

Features

- Pure Stainless steel SS304 (1.5mm thickness) manufacturing of the inner chamber
- Lead Proof Chamber with high insulation for seal integrity to attain top-notch Protection.
- Continuous working time ≥1,000hours under the test condition of +140°C;
- Japanese Technology Insulation material is made of polyurethane foam.
- Ensures perfect Gas sealing.
- Provision of a 100mm Diameter Cable Port that can withstand variable temperature ranges.
- A well-optimized airflow chamber for multiple sample testing altogether.
- Heat preservation material: made up of imported rigid rock wool rock wool (CSR 120 k).
- Provision of de-frosting heating wire to avoid glass frosting at extreme temperatures.
- Fin-type heater system with an enhanced radiator - pipe-shaped stainless steel heater.

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NABL

Touch Screen Interface - Tech Master

- HMI based Intuitive Touch screen interface with Programmable software.
- Online Graphical Report Generation
- Rapid Ethernet Connectivity for fast result transmission
- Quick data transmission with USB Port Facility
- In built Alarm Notification system with Auto Tuning Facility
- Secure Socket Layer (SSL) Protocol
- Password protection facility
- Interchangeable Languages - English & Hindi
- Easy Set up of User Profile for Automated report generation Programmable with Multiple Cyclic conditioning
- Pass/Fail Report Criteria in System Generated Report Viewable Fault History/ Past Reports
- Email Notification Facility for user ease
- Remote Monitoring facility for easy data Management
- In-built LED light Control System
- Options available set PV and SV value
- Knox system integrated for data security
- Monitoring of CO, H2, O2, and temperature in testing area atmosphere
- Run time vs temperature graph on screen

Safety Test Guardian

- Test chamber equipped with MP10 module which consists of multiple safety functions like:
- Motor over-heating protection (with LED indicator)- To ensure Safety of Motor which controls the entire operating System.
- Exhaust temperature over-heating protection- This safety Facility is able to monitor any overheating.
- Enhanced Door Locking with Reinforced brackets are available outside the door of the machine to make sure safety and security in case of any unexpected explosion.
- In built Power Indicator to provide live reading of Power
- Seven-point alarm function which consists of multiple alarms which provide the user with live notification of any faults in the Chamber.
- Explosion Proof Design: Ergonomic design ensures that the chamber is leak proof and Explosion proof in case of any uncertain events.
- Remote Monitoring Alarm System: User shall receive all notifications regarding any fluctuation in parameters or settings to ensure immediate rectifications.
- Emergency Shutdown Mechanism: Manual/ Automatic Shutdown mechanism
- Insulation: Insulating materials and coatings to prevent electrical contact and reduce the risk of electric shock.
- Pressure Relief Port: The Battery Dry oven consists of an automatic pressure relief port which opens when the pressure increases sharply
- CO2 fire suppression system- In built Fire Extinguisher system with automation to prevent from damage.
- Secure locking system as per Standard to ensure Zero Leakage
- Micro Safe Gas Detection system
- Smoke Monitoring Device for quick detection

Specification

Temperature range	RT+10°C ~ +300°C (A: +25°C ~ +200°C; B: +25°C ~ +300°C)
Temperature fluctuation	±0.5°C
Heating rate	25.0°C~ 100.0°C within 8 minutes (6.0~ 10.0°C/min)
Temperature uniformity	±2.0°C (25.0°C~ 100.0°C) +2.5°C (100.1°C ~ 200.0°C)
Internal material	Adopts 1.2mm thickness stainess steel (SUS304)
External material	Adopts 1.2mm thickness cold-rolled steel sheet / powder spraying
Heat insulating material	100mm thickness mineral wool
Power supply (Custom voltage)	380V AC 50/60Hz
Controller	Presto Equipped Touch Screen based Intuitive control Pannel